

# HIGH FREQUENCY SWITCH AND HIGH FREQUENCY SWITCH HAVING FILTER PART

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- European:

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## Abstract of JP11027177

PROBLEM TO BE SOLVED: To obtain a high frequency switch and a high frequency switch having a filter part which miniaturize a communication device, etc. SOLUTION: A transmission line 7 functions as a choke element of control voltage that is applied to a voltage control terminal Vc1. The line 7 also functions as a trap circuit which has attenuation polarity in a band of the third harmonic having a frequency  $3f_0$  that is three times as high as a transmission frequency  $f_0$  by adjusting the inductance values of a coil 2 and a transmission line 8 and the values of floating capacities cf1 to cf3 which respectively occur between terminals TX, ANT and RX and grounds and setting the line length of the line 7 to about  $\lambda/6$  ( $\lambda$ : wavelength for a transmission frequency  $f_0$ ).

